CLAIMS:

- 1. An automotive protective device comprising a woven or non-woven textile substrate having an adhesive prime coat polyurethane layer coated on at least one surface thereof and a solid polymeric film laminated thereto.
- 2. The automotive protective device of claim 1 wherein said textile substrate is a nylon, polyester or other synthetic fiber.
- 3. The automotive protective device of claim 2 wherein said solid polymeric film laminate is a polyamide, polyolefin, polyether, polyester, polycarbonate or polyurethane film.
- 4. The automotive protective device of claim 2 wherein said textile substrate is a woven nylon, polyester, or other synthetic fiber.
- 5. The automotive protective device of claim 4 wherein said textile substrate is woven nylon.
- 6. The automotive protective device of claim 5 wherein said adhesive prime coat polyurethane layer is a composition comprising a polycarbonate-based aliphatic polyurethane and an isocyanate.
- 7. The automotive protective device of claim 5 wherein said adhesive prime coat polyurethane layer is a composition comprising: a polycarbonate-based aliphatic polyurethane; a polyester or polyether-based aliphatic polyurethane, or copolymer blends of ethylene vinyl acetate; and an isocyanate.
- 8. The automotive protective device of claim 6 wherein said adhesive prime coat polyurethane layer has a coating weight of from about 0.25 ounces per square yard to about 2.5 ounces per square yard.
- 9. The automotive protective device of claim 6 wherein said adhesive prime coat polyurethane layer has a coating weight of about 1.2 ounces per square yard.
- 10. The automotive protective device of claim 6 wherein said adhesive prime coat polyurethane layer has a solids content of from about 25% to about 45%.
- 11. The automotive protective device of claim 6 wherein said solid polymeric film laminate has a thickness of from about 0.2 mils to about 5.0 mils.

- 12. The automotive protective device of claim 6 wherein said solid polymeric film laminate has a thickness of from about 0.5 mils to about 1.0 mils.
- 13. A method of manufacturing an automotive protective device which comprises:
- a) coating the surface of a woven or non-woven textile substrate with a prime coat adhesive polyurethane layer comprising: a polycarbonate-based aliphatic polyurethane and an isocyanate; and
- b) laminating a solid polymeric film to said prime-coated surface of said textile substrate.
- 14. A method of manufacturing an automotive protective device which comprises:
- a) coating the surface of a woven or non-woven textile substrate with a prime coat adhesive composition comprising: a polycarbonate-based aliphatic polyurethane; a polyester or polyether-based aliphatic polyurethane, or copolymer blends of ethylene vinyl acetate; and an isocyanate.
- 15. The method of claim 14 wherein said textile substrate is woven nylon, polyester or other synthetic fiber.
- 16. A method of manufacturing an automotive protective device which comprises:
- a) taking a one-piece woven textile substrate comprising a nylon, polyester, or other synthetic fiber having two outer surfaces and pre-configured air holding cavities therein;
- b) coating each of said outer surfaces of said textile substrate with an adhesive polyurethane prime coat layer comprising: a polycarbonate-based aliphatic polyurethane and an isocyanate; and
- c) laminating a solid polymeric film to each of said outer surfaces of said textile substrate.
- 17. The method of claim 16 wherein said adhesive polyurethane prime coat layer is a composition comprising: a polycarbonate-based aliphatic polyurethane; a polyester or polyether-based aliphatic polyurethane, or copolymer blends of ethylene vinyl acetate; and an isocyanate.
- 18. The method of claim 16 wherein said woven textile substrate is nylon.
- 19. The method of claim 16 wherein said solid polymeric film laminate is a polyamide, polyolefin, polyester, polyether, polycarbonate or polyurethane film.

- 20. The method of claim 16 wherein said solid polymeric film is laminated sequentially on said outer surfaces.
- 21. The method of claim 16 wherein said polymeric film lamination takes place at a temperature of from about 275° F. to about 450° F. and at a pressure of from about 200 psi to about 1000 psi.
- 22. The method of claim 21 wherein said polymeric film lamination takes place at a temperature of about 400° F. and at a pressure of from about 500 psi to about 600 psi.
- 23. A composite sealing and air holding laminating film for use in the manufacture of an automotive protective device with a woven or non-woven textile substrate, said composite laminating film comprising a solid polymeric carrier film and a layer of adhesive prime coat polyurethane coated thereon.
- 24. The composite sealing and air holding laminating film of claim 23 wherein said solid polymeric carrier film is a polyamide, polyolefin, polyester, polyether, polycarbonate or polyurethane film.
- 25. The composite sealing and air holding laminating film of claim 23 wherein said adhesive prime coat polyurethane layer comprises: a polycarbonate-based aliphatic polyurethane and an isocyanate.
- 26. The composite sealing and air holding laminating film of claim 23 wherein said adhesive prime coat polyurethane layer is a composition comprising: a polycarbonate-based aliphatic polyurethane; a polyester or polyether-based aliphatic polyurethane, or copolymer blends of ethylene vinyl acetate; and an isocyanate.
- 27. The composite sealing and air holding laminating film of claim 23 wherein said adhesive prime coat polyurethane layer has a thickness of from about 0.5 mils to about 5.0 mils.
- 28. The composite sealing and air holding laminating film of claim 23 wherein said adhesive prime coat polyurethane layer has a thickness of from about 1.0 mils to about 1.5 mils.
- 29. The composite sealing and air holding laminating film of claim 23 wherein said adhesive prime coat polyurethane layer has a solids content of from about 25% to about 45%.

- 30. The composite sealing and air holding laminating film of claim 23 wherein said solid polymeric carrier film has a thickness of from about 0.2 mils to about 5.0 mils.
- 31. The composite sealing and air holding laminating film of claim 23 wherein said solid polymeric carrier film has a thickness of from about 0.5 mils to about 1.0 mils.
- 32. A method of making a composite sealing and air holding laminating film for use in the manufacture of an automotive protective device which comprises:
- a) forming a carrier film layer by casting a solution of polyester, polyamide, polyether, polyester, polycarbonate or aliphatic or aromatic polyether polyurethane or polyester polyurethane and a solvent onto a release paper;
 - b) solidifying said carrier film layer by heating to evaporate said solvent;
- c) coating an adhesive prime coat polyurethane layer onto said polymeric carrier film;
 - d) heating to dry said adhesive prime coat polyurethane material; and
 - e) stripping said composite laminating film from said release paper.
- 33. The method of claim 32 wherein said adhesive polyurethane prime coat layer comprises: a polycarbonate-based aliphatic polyurethane and an isocyanate.
- 34. The method of claim 32 wherein said adhesive polyurethane prime coat layer comprises: a polycarbonate-based aliphatic polyurethane; a polyester or polyether-based aliphatic polyurethane, or copolymer blends of ethylene vinyl acetate; and an isocyanate.
- 35. The method of claim 32 wherein said polymeric carrier film layer has a thickness of from about 0.2 mils to about 5.0 mils.
- 36. The method of claim 32 wherein said polymeric carrier film layer has a thickness of from about 0.5 mils to about 1.0 mils.
- 37. The method of claim 32 wherein said adhesive prime coat polyurethane layer has a thickness of from about 0.5 mils to about 5.0 mils.
- 38. The method of claim 32 wherein said adhesive prime coat polyurethane layer has a thickness of from about 1.0 mils to about 1.5 mils.

- 39. An automotive protective device comprising a one-piece woven textile substrate having two outer surfaces and pre-configured air holding cavities woven therein, each of said outer surfaces having an adhesive polycarbonate-based aliphatic polyurethane prime coat layer and a solid polymeric film laminated to each of the outer surfaces of said woven textile substrate.
- 40. The automotive protective device of claim 39 wherein said woven textile substrate is a nylon, polyester or other synthetic fiber.
- 41. The automotive protective device of claim 39 wherein said solid polymeric film laminate is a polyamide, polyolefin, polyester, polyether, polycarbonate or polyurethane film.
- 42. The automotive protective device of claim 39 wherein said textile substrate is woven nylon.
- 43. The automotive protective device of claim 39 wherein said adhesive polyurethane prime coat layer comprises: a polycarbonate-based aliphatic polyurethane; a polyester or polyether-based aliphatic polyurethane, or copolymer blends of ethylene vinyl acetate; and an isocyanate.
- 44. The automotive protective device of claim 43 wherein said adhesive prime coat polyurethane coating layer has a thickness of from about 0.5 mils to about 5.0 mils.
- 45. The automotive protective device of claim 43 wherein said adhesive prime coat polyurethane coating layer has a thickness of from about 1.0 mils to about 1.5 mils.
- 46. The automotive protective device of claim 43 wherein said adhesive prime coat polyurethane coating layer has a solids content of from about 25% to about 45%.
- 47. The automotive protective device of claim 43 wherein said polymeric film laminate has a thickness of from about 0.2 mils to about 5.0 mils.
- 48. The automotive protective device of claim 43 wherein said polymeric film laminate has a thickness of from about 0.5 mils to about 1.0 mils.